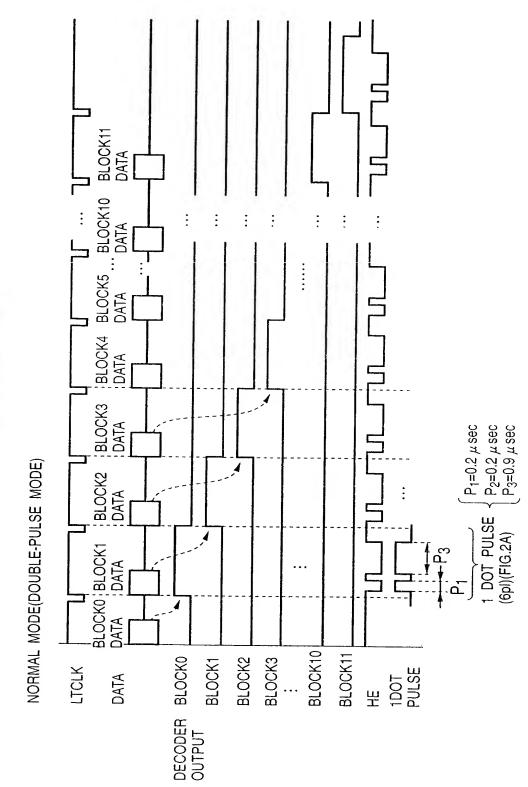
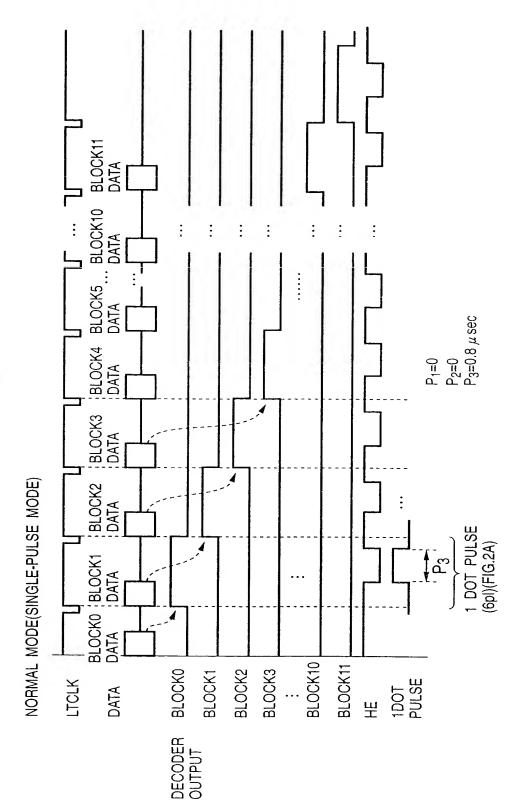
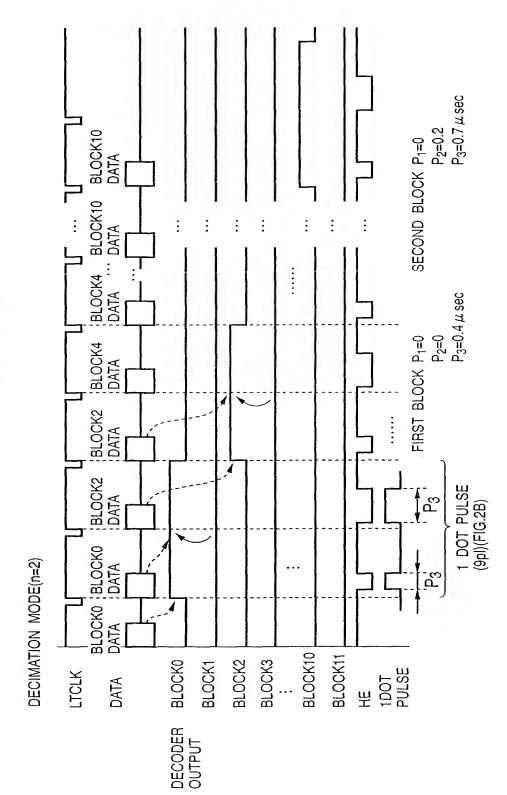
T G 1A



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F1G. 1C



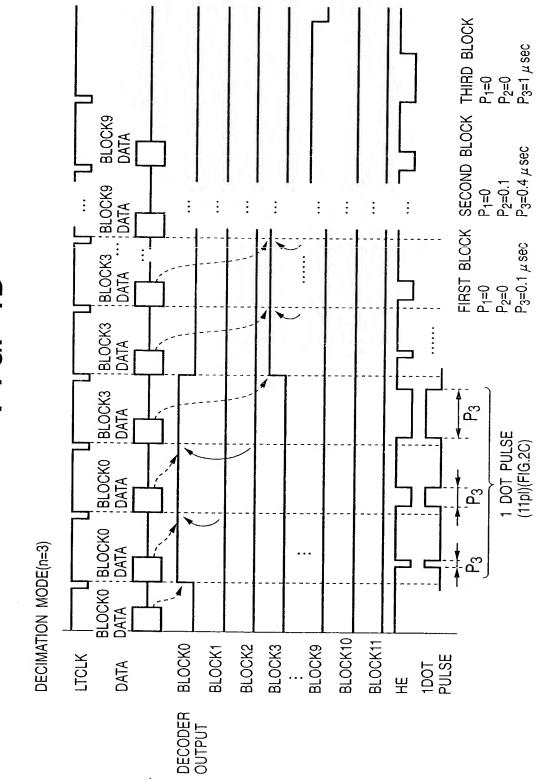


FIG. 1D

FIG. 2A

DOT LAYOUT IN NORMAL MODE

1 dot6pl×36DROPLETS=216pl / PREDETERMINED AREA
O
O
(10l=1~1~1~1 PREDETERMINED AREA DISCHARGE DOT LINE BLOCK BLOCK10-**BLOCK9 BLOCK5** BLOCK4 **BLOCK3 BLOCK2 BLOCK8 BLOCK6** BLOCK1 **BLOCK7**

FIG. 2B

DOT LAYOUT IN DECIMATION MODE(n=2)

BLOCK

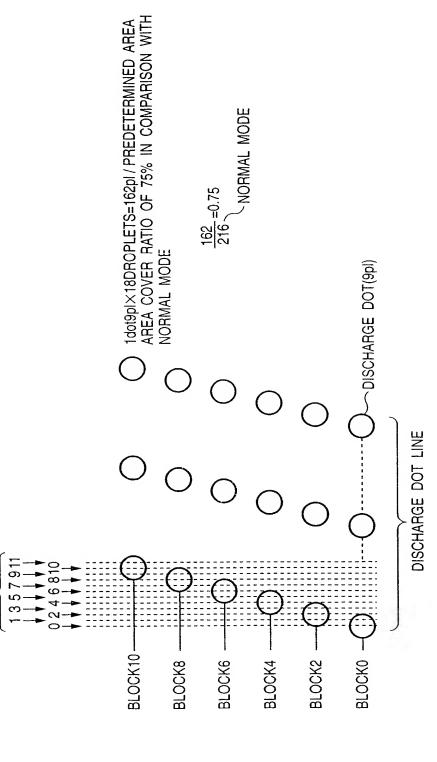
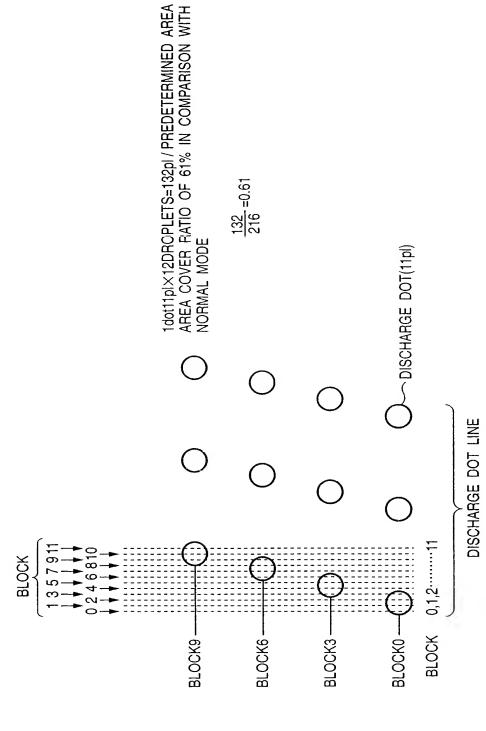


FIG. 2C

DOT LAYOUT IN DECIMATION MODE(n=3)



五 の 。

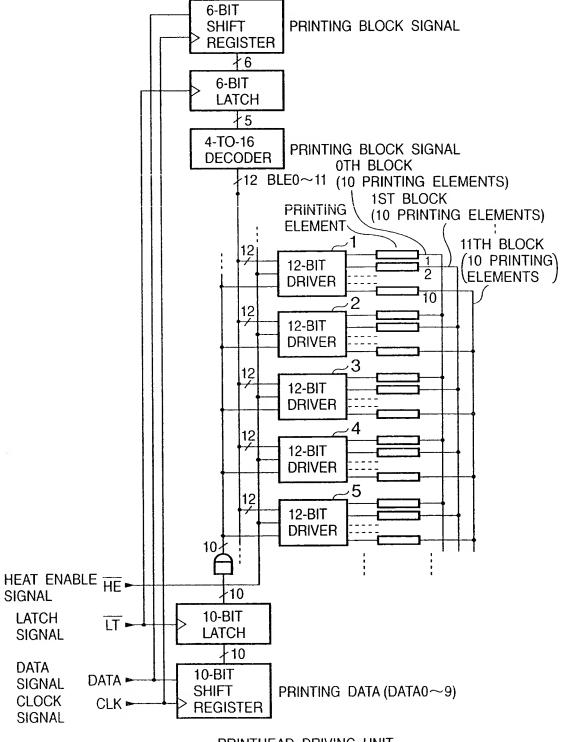
FIRST EMBODIMENT

PRINTHEAD TEMPERATURE-PRINTING MODE TABLE

MORE	DECIMATION MODE DECIMATION MODE (n=2)
41°C OR MORE	AATION
41,	DECIN (n=3)
40°C	MODE
36°C TO 40°C	AATION
36	
35°C	OORMAL MODE NORMAL MODE DOUBLE-PULSE (MODE)
30°C TO 35°C	NORMAL MODE (SINGLE-PULSE) (MODE
3(NON SIE
LESS	NORMAL MODE (DOUBLE-PULSE) (MODE
30°C OR LESS	JORMAL N DOUBLE-F MODE
30	NON OM)
AD ATURE	.ING
PRINTHEAD TEMPERATURE	PRINTING MODE
교프	

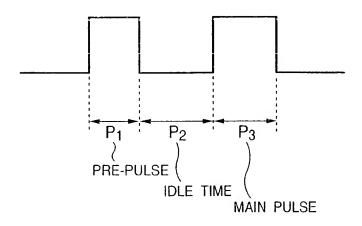
9/24

FIG. 4



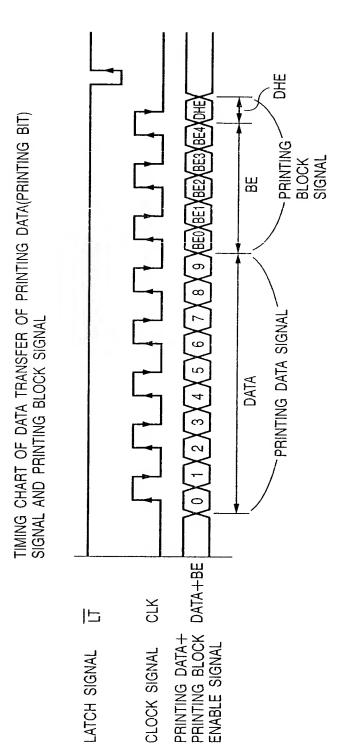
PRINTHEAD DRIVING UNIT

FIG. 5

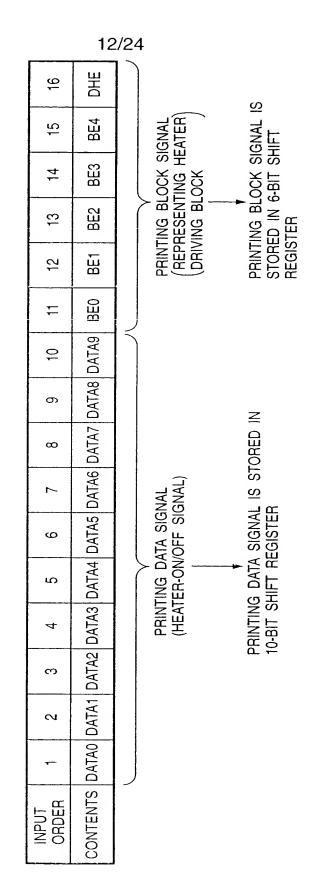


DOUBLE-PULSE DRIVING IN CONVENTIONAL PRINTHEAD

F.G. 6

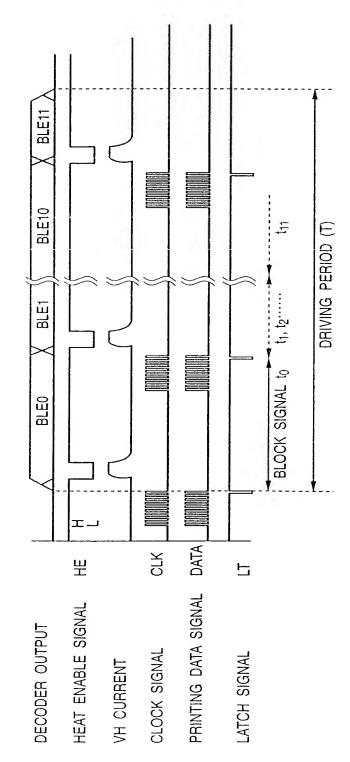


F G. 7



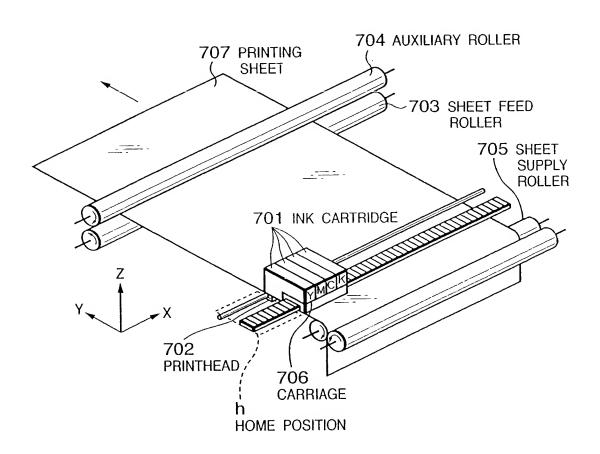
F. G.

TIMING CHART OF DATA TRANSFER OF PRINTING DATA(PRINTING BIT) SIGNAL AND PRINTING BLOCK SIGNAL, AND DRIVING OF HEATER ELEMENT



8절 1		- 1											\neg)
BLOC DATA		BLE0	I	_			ب	•••		ب		ا بــ		
		BLE1		ェ									_	(USE)
		BLE2	٦	_	エ	_		•••	٦	_				UTPUTS
		BLE3	٦		<u>ן</u>	エ	_1				_			12 DECODER OUTPUTS(USE)
	2	BLE4	7		٦		エ	•••	7					12 DEC
	DECODER OUTPUT						••••••						•	
	DECOD	BLE11		7			Į.		エ					
		BLE12		7	٦	7	7		1	Н	7	7	7	
		BLE13	٦			٦		•••		7	エ	7	7	
		BLE14		7	7			•••	1	7]	エ	7	
		BLE15			نــ		1	•••					π	
	Ţ	BE0	1	ェ		I			I		エ		ェ	
	DECODER INPUT	BE1	_	رـ	I	ェ	ب		I	ٔ ب		I	π	(L:LOW(ACTIVE) H:HIGH
	CODE	BE2	_				工			I	工	工	ェ	LOW(/ HIGH
	띰	BE3	J						I	I	Ι	I	I	~∷±
		CODE	0	-	2	က	4		#	12	13	14	15	

FIG. 10



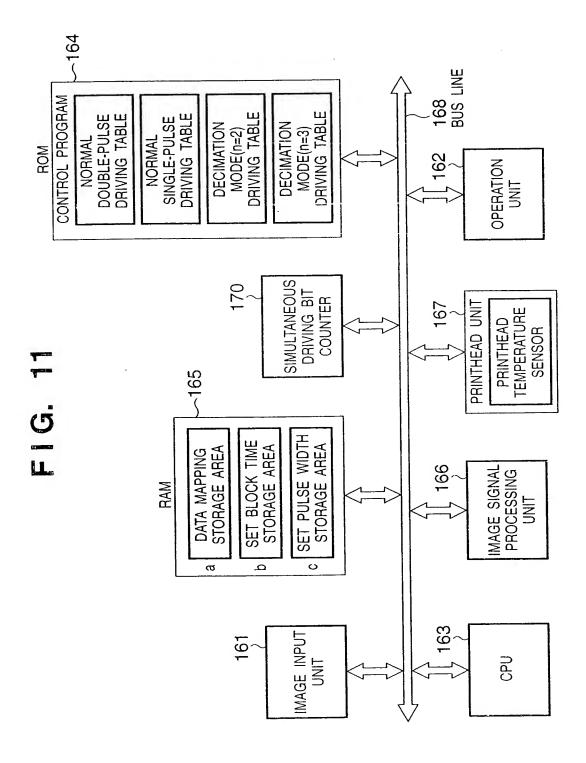
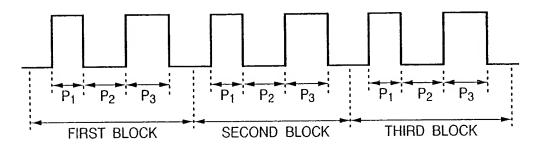


FIG. 12A

DRIVING PULSE WIDTH TABLE

	PULSE WIDTH	NORMAL DOUBLE-PULSE DRIVING	NORMAL SINGLE-PULSE DRIVING	DECIMATION MODE (n=2)	DECIMATION MODE DECIMATION MODE (n=3)
FIRST	P1[μ sec]	0.20	0.00	0.00	0.00
BLOCK	P2[µ sec]	0.20	00:00	0.00	0.00
	P3[µ sec]	0.70	08.0	0.40	0.10
SECOND	P1[µ sec]	1	-	0.00	0.00
BLOCK	P2[μ sec]	-	- Allerton	0.20	0.10
	P3[μ sec]		-	0.70	0.40
THIRD	P1[μ sec]	1	- Annual -	1	00:00
BLOCK	P2[μ sec]		1	-	0.00
	P3[µ sec]	1	1		1.00
NUMBE	NUMBER OF BLOCKS	UNCHANGED	UNCHANGED	DECIMATED TO 1/2	DECIMATED TO 1/2 DECIMATED TO 1/3

FIG. 12B



P1: PRE-PULSE P2: IDLE TIME P3: MAIN PULSE

FIG. 13

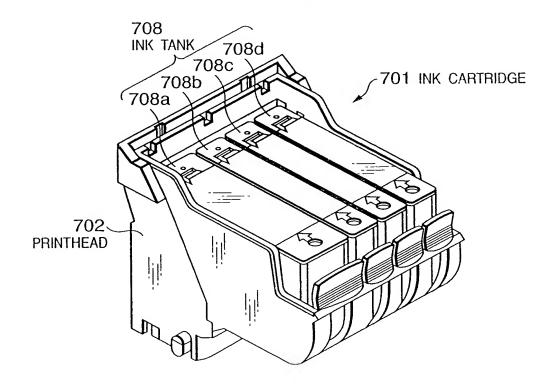


FIG. 14

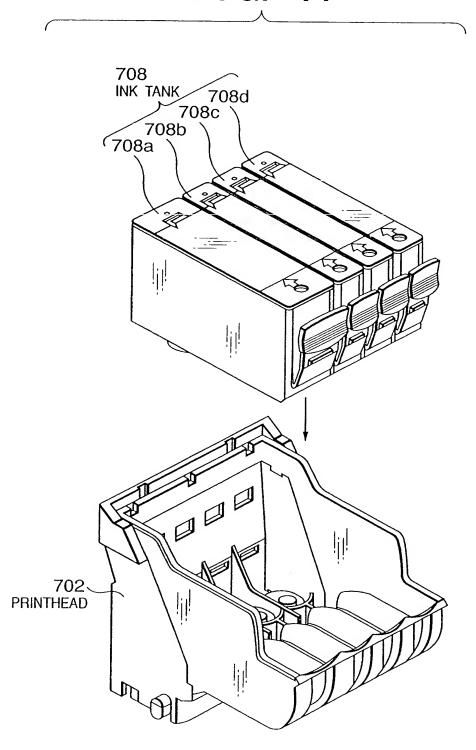
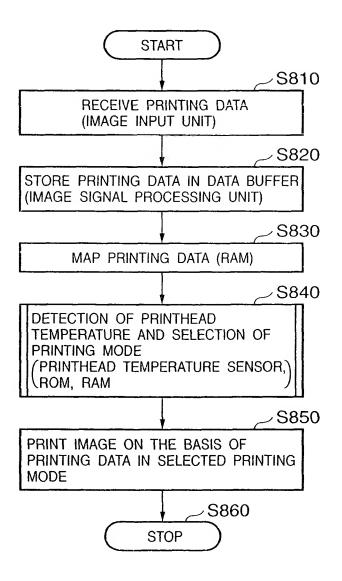


FIG. 15



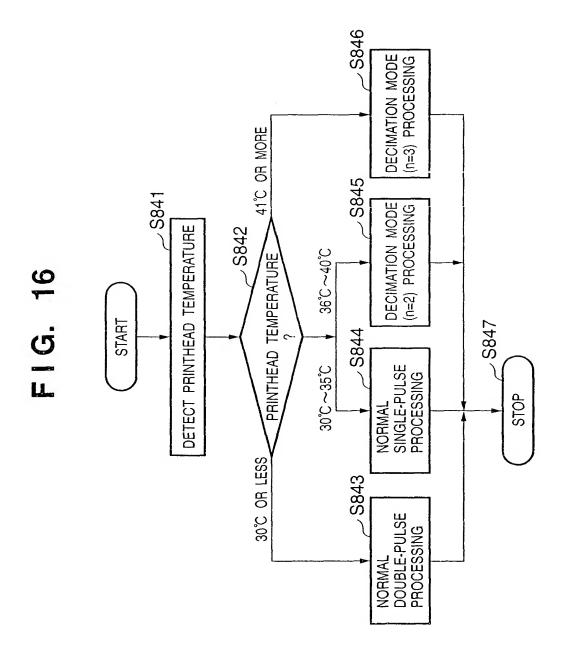


FIG. 17

SECOND EMBODIMENT

SIMULTANEOUS DRIVING BIT-PRINTING MODE TABLE

NUMBER OF BITS TO BE SIMULTANEOUSLY DRIVEN	0~2	3~2	8~9	9~10
PRINTING MODE	NORMAL DOUBLE-PULSE MODE	NORMAL SINGLE-PULSE MODE	DECIMATION (n=2) DECIMATION (n=3) MODE	DECIMATION (n=3) MODE

FIG. 18

